

NAME _____

DATE _____

Carolina™ Cell Respiration for AP Biology

Background

You are probably familiar with photosynthesis, the metabolic process that plants use to harness energy from the sun. But how do plants acquire energy when they germinate underground, out of the reach of sunlight? They metabolize sugars much like humans do, through cellular respiration.

All cells need energy. Energy is contained in the molecular structure of organic compounds such as carbohydrates, proteins, and fats. Carbohydrates, also called sugars, are the primary source of cellular energy. When the bonds of a carbohydrate molecule are broken, in a series of small steps and with the help of specific enzymes, energy is released from the bonds. The energy, stored in a molecule called adenosine triphosphate (ATP), can then be used by the cell.

ATP is the chief energy source of cells. It stores energy in the structure of its three-phosphate tail. The removal of a phosphate from the ATP molecule releases energy that powers almost all metabolic processes. When a phosphate is removed, adenosine triphosphate becomes adenosine diphosphate (ADP). Through cell respiration, fermentation, and other metabolic processes, there is a constant cycling between ATP and ADP.

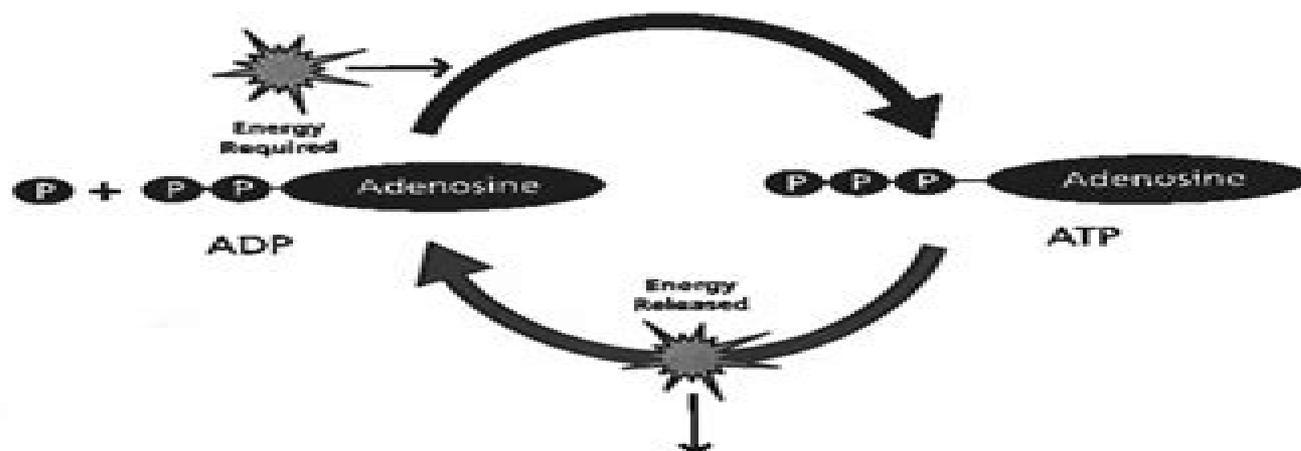


Figure 1. Cycling of ATP and ADP

In this lab, we will focus on aerobic cellular respiration. The series of reactions that occurs during aerobic cellular respiration is grouped into steps called glycolysis, Acetyl CoA synthesis, Krebs cycle, and electron transport chain. The breakdown of the sugar molecule is summarized by the following equation:



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